

Patent Claims

1. Process for updating map data of a navigation system in a vehicle (20), wherein the navigation system includes a digital map (12) of a road and path network as well as a digital supplemental map (22), wherein in the digital supplemental map data supplemental to the road and path network are stored, comprising the steps
 - a) producing differential data (18) for an updated digital map (14) using the digital map (12),
 - b) replacing the digital map (12) in the vehicle with the updated digital map (14),
 - c) updating the digital supplemental map (22) in the vehicle using the differential data (18).
2. Process according to Claim 1, thereby characterized, that the differential data (18) is produced in a geographically fixed center (10).
3. Process according to Claim 1 or 2, thereby characterized, that the updated digital map (14) and/or the differential data (18) is introduced into the vehicle (20) using a portable storage medium (15) and/or a portable terminal.
4. Process according to one of the preceding claims, thereby characterized, that the updated digital map (14) and/or the differential data (18) are transmitted wirelessly to the vehicle.
5. Navigation system for a vehicle including a digital map of a road and path network and a digital supplemental map in

which supplemental data for the road and path network is stored, thereby characterized, that it is recognized in the vehicle (20) whether the digital map (12) has been replaced with an updated digital map (14), and as needed requesting differential data (18) for updating the digital supplemental map (22), wherein the differential data (18) is produced using the digital map (12) and the updated digital map (14).

6. Navigation system according to Claim 5, thereby characterized, that the driver is prompted to make the differential data (18) available to the navigation system.
7. Navigation system according to Claim 5 or 6, thereby characterized, that the differential data (18) is requisitioned by the driver and/or automatically from a geographically fixed center (10).
8. Navigation system according to one of Claims 5 through 7, thereby characterized, that the updated digital map (14) and/or the differential data (18) is introduced into the vehicle (20) via a portable storage medium (15) and/or a portable terminal.
9. Navigation system according to one of Claims 5 through 8, thereby characterized, that the updated digital map (14) and/or the differential data (18) is introduced into the vehicle (20) wirelessly and/or by wire.